



EXPRESS MAIL NO. \*ET 190 208 066 US\*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : John L. Lautzenhiser et al.

Application No. : 09/802,823

Filed : 10 March 2001

For : PROPORTIONAL ACTUATOR CONTROL  
OF APPARATUS

Art Unit : 2107

Examiner :

Docket : 213-02US:0103

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AMENDMENT PREPARATORY TO EIGHTEEN MONTH PUBLICATION

Honorable Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicants herein submit an amendment for the purpose of correcting drawing errors in FIGURES 47 and FIGURE 48. In addition, an alphanumeric item designator (N) is added to FIGURE 46A, and FIGURE 46, which was submitted as a paste-up, is redrawn to USPTO standards.

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I hereby certify that this correspondence is being mailed with the United States Postal Service as "EXPRESS MAIL Post Office to Addressee" service under 37 CFR 1.10, in an express mail envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, Attention: OIPE, on April 9, 2001.

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Signature of Person Mailing

April 9, 2001  
Date Mailed

04/12/2001 TBESHAH1 00000071 133404 09802823

01 FC:205 65.00 CH

Adjustment date: 11/29/2001 SDAVIS  
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As will be pointed out subsequently, the description, as filed, makes it clear that correction of the drawing errors on FIGURES 47 and 48 are not new matter, but instead corrections that would be obvious to anyone skilled in the art in view of the clarity of the detailed description.

Referring now to a copy of FIGURE 46A with the requested change marked in red, Applicants respectfully submit that adding "N" for the null voltage is not new matter. More particularly, paragraph 0409 of the subject patent application says, in part: "One of the transducers 362A or 362B varies the output voltage 546 both above and below the null voltage N, which is shown by a like-numbered horizontal line."

Referring now to FIGURE 47 and a correction marked in red thereon, paragraph 0417 of the subject patent application says, in part: "The resistors R8, R9, and R10, and the potentiometer RV3 cooperate to provide adjustable high and low limits on pins 5 and 6 of the comparators U3A and U3B." Obviously, R7, R8, and R9 on FIGURE 47 is incorrect, and should be R8, R9, and R10, as renumbered in red, and as submitted herewith on the corrected drawings.

As can be seen on the drawings, it is the resistors R7, R8, and R9 (not R8, R9, and R10) that cooperate with the potentiometer RV3 "to provide adjustable high and low limits on pins 5 and 6 of the comparators U3A and U3B."

Thus, paragraph 0417 is in error and requires correction (correct resistor numbers are included in paragraph 0416). However, unless Examiner disagrees, this correction to paragraph 0417 will be made in conjunction with a reply to a future Official Office Action to avoid unnecessary complication of this paper.

Paragraph 0419 of the subject patent application says, in part: "By selective adjustment of the potentiometer RV3, upper and lower voltage limits are selectively adjusted to be in the order of 0.1 to 0.7 volts above and below the null voltage N."

However, anyone skilled in the art would realize that, in FIGURE 47 as originally submitted, instead of the potentiometer RV3 changing limits on

both pins 5 and 6, as described in paragraphs 0417 and 0419, the potentiometer RV3 changes only the lower limit on pin 6.

Obviously, for the potentiometer RV3 to control voltages on both pins 5 and 6, selectively moving the potentials on pins 5 and 6 closer to, or farther from, each other, the potentiometer RV3 must control the resistance between the resistors R7 and R9.

Therefore, Applicants respectfully submit that, by a careful reading of the detailed description, anyone skilled in the art would recognize that a drawing error exists in FIGURE 47.

Further, Applicants respectfully submit that anyone skilled in the art would recognize that connection of an arm of the potentiometer RV3, as shown in the correction marked in red ink, is required to make the potentiometer RV3 control the resistance between the resistors R7 and R9, and thereby to control a difference in potentials applied to the pins 5 and 6.

Therefore, Applicants respectfully submit that making the correction shown in red on FIGURE 47 does not constitute new matter.

Referring now to FIGURE 48 and the drawing correction thereof, paragraphs 0431 and 0432 of the subject patent application say, in part: "a null-width generator 580 includes components and conductors that are named and like-numbered with those for the null-width generator 564 of FIGURE 47, except . . . A gate G of a bilateral switch Q4 is connected . . . Operation is as described for the null-width generator 564 of FIGURE 47."

Therefore, since operation of the null-width generator 580 is the same as that described for the null-width generator 564 of FIGURE 47, considering the arguments set forth for correcting the null-width generator 564 of FIGURE 47, Applicants respectfully submit that making the same correction for FIGURE 48 does not constitute new matter, but instead, in view of the detailed descriptions of FIGURES 47 and 48, is an obvious correction of a drafting error.

In summary, Applicants respectfully submit that the requested changes are merely corrections in drafting errors, and that the corrections are fully supported by the detailed descriptions, so that no new matter is involved.

Applicants respectfully request that, subsequent to approval of the drawing changes, Examiner forward the accompanying petition under 37 CFR 1.182, requesting entry of the replacement drawings, and the supporting papers (Transmittal Form PTO/SB/21, Fee Transmittal Form PTO/SB/17, Petition Requesting Entry of Drawings under 37 CFR 1.182, and corrected drawing sheets 15/17 and 16/17) to BOX PGPUB DRAWINGS, all of which are enclosed in an addressed envelope for Examiner's convenience.

Respectfully submitted,



Wendell E. Miller  
Agent for Applicants  
Registration No. 26,572

Enclosures:

Drawing Sheets 15/17 and 16/17 with changes marked in red ink  
Drawing Sheets 15/17 and 16/17 corrected  
Letter to the Official Draftsman with copies of red-ink corrected drawings  
and Drawing Sheets 15/17 and 16/17 corrected  
Return postcard

Additional Enclosures:

In an envelope addressed to Box PGPUB DRAWINGS (for submission to PGPUB DRAWINGS after Examiner approval of drawing changes):  
Transmittal Form PTO/SB/21 & enclosures for BOX PGPUB DRAWINGS  
Fee Transmittal Form PTO/SB/17 authorizing \$130 per 37 CFR 1.17(h)  
Petition Requesting Entry of Drawings under 37 CFR 1.182  
Corrected Drawing Sheets 15/17 and 16/17  
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